```c
#include <stdio.h>
int main() {
    int n, i;
    printf("Enter the number of elements in arrays: ");
    scanf("%d", &n);
    int arr1[n], arr2[n], arr3[n], result[n];
    printf("Enter elements of first array:\n");
    for(i = 0; i < n; i++) {
        scanf("%d", &arr1[i]);
    }
    printf("Enter elements of second array:\n");
    for(i = 0; i < n; i++) {
        scanf("%d", &arr2[i]);
    }
    printf("Enter elements of third array:\n");
    for(i = 0; i < n; i++) {
        scanf("%d", &arr3[i]);
    }
    for(i = 0; i < n; i++) {
        result[i] = arr1[i] * arr2[i] * arr3[i];
    }
    printf("Multiplication of the three arrays:\n");
    for(i = 0; i < n; i++) {
        printf("%d ", result[i]);
    }

    return 0;
}
```

Run